## IN THE CLAIMS

Please amend Claims 1 and 7 as indicated

Please cancel Claims 5, 11 and 15-20, without prejudice and without disclaimer of subject matter.

Please add Claims 21-26 as indicated

(Currently Amended) An adaptive interconnect for providing an interface between
multiple modules and a control system comprising:

- a) a control system interface;
- b) a plurality of module interfaces; and
- c) adaptive interconnect logic associated with the control system interface and the plurality of module interfaces and adapted to:

 negotiate with a module over a control path via one of the plurality of module interfaces to identify an interface personality for the module;

ii) select the interface personality based on negotiations with the module; and iii) apply the interface personality to the one of the plurality of module interfaces, such that the applied interface personality provides an appropriate interconnection between the control system interface and the one of the plurality of module interfaces via a plurality of pins;

receive a stimulus indicative of a change in personality for the module;

renegotiate with the module over the control path via the one of the plurality of module interfaces to identify a new interface personality for the module;

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select the new interface personality based on the renegotiations with the module;

and

apply the new interface personality to the one of the plurality of module

interfaces.

2. (Original) The adaptive interconnect of claim 1 wherein different interface

personalities can be implemented simultaneously among the plurality of module interfaces.

3. (Original) The adaptive interconnect of claim 1 wherein the adaptive interconnect

logic is further adapted to renegotiate with the module over the control path if initial negotiations

fail.

4. (Original) The adaptive interconnect of claim 3 wherein if the renegotiation fails, the

adaptive interconnect logic is further adapted to send a notification of failure

5. (Cancelled).

6. (Original) The adaptive interconnect of claim 1 wherein negotiating, selecting and

applying the interface personality are dynamic and occur automatically upon plugging the

module into the one of the plurality of module interfaces.

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 (Currently Amended) A method for providing an interface between multiple modules and a control system comprising:

 a) negotiating with a module over a control path via one of a plurality of module interfaces to identify an interface personality for the module;

b) selecting the interface personality based on negotiations with the module; and

e) applying the interface personality to the one of the plurality of module interfaces, such that the applied interface personality provides an appropriate interconnection between the control system and the one of the plurality of module interfaces via a plurality of pins;

receiving a stimulus indicative of a change in personality for the module,

renegotiating with the module over the control path via the one of the plurality of module interfaces to identify a new interface personality for the module,

selecting the new interface personality based on the renegotiations with the module; and applying the new interface personality to the one of the plurality of module interfaces.

- 8. (Original) The method of claim 7 wherein different interface personalities can be implemented simultaneously among the plurality of module interfaces.
- (Original) The method of claim 7 further comprising renegotiating with the module over the control path if initial negotiations fail
- (Original) The method of claim 9 wherein if the renegotiation fails, further comprising sending a notification of failure

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11. (Cancelled).

12. (Original) The method of claim 7 wherein negotiating, selecting and applying the

interface personality are dynamic and occur automatically upon plugging the module into the one

of the plurality of module interfaces.

13. (Previously Presented) The adaptive interconnect of claim 1 wherein the plurality of

pins include power pins, control pins, and datapath pins.

14. (Previously Presented) The adaptive interconnect of claim 13 wherein the adaptive

interconnect logic negotiates with the module using the control pins.

15-20. (Cancelled)

21. (New) A method of providing an interface between a control system and each of a

plurality modules, the method comprising:

negotiating with a module over a control path to determine an interface personality

compatible with the module, the determined interface personality defining signal levels for

communications with the module;

applying the interface personality to the module, such that the applied interface

personality provides an appropriate interconnection between the control system and the module.

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22. (New) The method of Claim 21, wherein determination of the interface personality is

based on a time of day.

23. (New) The method of Claim 21, wherein determination of the interface personality is

based on a traffic load.

24. (New) The method of Claim 21, further comprising, when negotiation fails, allowing

a set of data path pins to float.

25. (New) The method of Claim 23, further comprising, when negotiation fails, removing

the module from service.

26. (New) The method of Claim 23, wherein the negotiating comprises pin mapping.

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